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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,872	06/24/2003	Won-Bong Choi	030681-521	1325	
21839	7590 12/28/2005		EXAMINER		
BUCHANAN INGERSOLL PC			YUAN, DAH WEI D		
	G BURNS, DOANE, SWI CE BOX 1404	ECKER & MATHIS)	ART UNIT	PAPER NUMBER	
	RIA, VA 22313-1404		1745		
			DATE MAILED: 12/28/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/601,872	CHOI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Dah-Wei D. Yuan	1745	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence addres	SS
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILII - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication of 15 No period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re- on. period will apply and will expire SIX (6) MON restatute, cause the application to become AB	CATION. apply be timely filed THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on This action is FINAL. Since this application is in condition for a closed in accordance with the practice ur 	This action is non-final. Howance except for formal matt	· •	erits is
Disposition of Claims	•	·	
4)	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exact 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the country of the country	accepted or b) objected to to the drawing(s) be held in abeyan correction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1	• •
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International Experies the attached detailed Office action for the certified copies of the application from the International Experies the attached detailed Office action for the certified copies of the attached detailed Office action for the certified copies of the priority document of the certified copies of the	ments have been received. ments have been received in A e priority documents have been Jureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	ge
Attachment(s) 1) \[\sum \text{Notice of References Cited (PTO-892)} \]	4) ☐ Interview S	summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/94 Paper No(s)/Mail Date	(s) Paper No(s	s)/Mail Date nformal Patent Application (PTO-152	2)

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Art Unit: 1745

CARBON NANOTUBES FOR FUEL CELLS, METHOD FOR MANUFACTURING THE SAME, AND FUEL CELL USING THE SAME

Examiner: Yuan S.N. 10/601,872 Art Unit: 1745 December 23, 2005

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-5,13-16, drawn to a carbon nanotubes, classified in class 313, subclass

309.

II. Claims 6-12, drawn to a method for fabricating carbon nanotubes, classified in

class 423, subclass 447.3.

The inventions are distinct, each from the other because of the following reason:

2. Inventions II and I are related as process of making and product made. The inventions

are distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). The nanotubes as claimed

in invention I can be fabricated by a different method that does not require the reaction between

the carbon source gas and the metallic catalyst particles.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

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4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dah-Wei D. Yuan December 23, 2005

> DAH-WEIYUAN PRIMARY EXAMINER